LISTING OF CLAIMS

1-6. (canceled)

- 7. (currently amended) The semiconductor carrier structure of Glaim 1 A semiconductor carrier structure for mounting semiconductor chips comprising:
- a semiconductor substrate comprising a substrate material having a first coefficient of thermal expansion and a first elastic modulus;

at least one constant diameter through-via in said semiconductor substrate, wherein each of said through-vias is filled with a conductive structure having a second coefficient of thermal expansion which is less than or substantially the same as the first coefficient of thermal expansion and a second elastic modulus which is less than or equal to the first elastic modulus, wherein said each conductive structure comprises a first conductive via material disposed in annular shape along the sidewalls of said through-via, said annular shape having an annular diameter which is said constant diameter and having a core structure comprising a second via material disposed within said annular shape and having a core diameter which is less than said constant diameter.

- (original) The semiconductor carrier structure of Claim
 wherein said second via material comprises an insulating
 material.
- (original) The semiconductor carrier structure of Claim
 wherein said second via material comprises a conducting material.
- 10. (original) The semiconductor carrier structure of Claim 7 wherein said second via material comprises said substrate material.
- 11. (original) The semiconductor carrier structure of Claim 7 wherein said second via material is selected from the group consisting of polyimide, thermid, KJ, photosensitive polyimide, SiLK, or other high-temperature polymer.
- 12. (original) The semiconductor carrier structure of Claim 7 wherein said second via material comprises a material having a third coefficient of thermal expansion which is less than or about equal to said first coefficient of thermal expansion.

- 13. (original) The semiconductor carrier structure of Claim 7 wherein said second via material comprises silicate glass.
- 14. (original) The semiconductor carrier structure of Claim 7 wherein said second via material comprises of silica or a silicate glass-filled high temperature polymer.
- 15-42. (canceled)